

Claims

1. Lathe tool of the single piece type for boring with a cross-section less than 10 mm, comprising a substantially cylindrical tool body (2) provided to be engaged and held in a tool support (10) traversed by at least one lubricant supply channel, this tool body (2) being prolonged, at one end (3), by a neck (4) terminating in a head (5) comprising a cutting edge (6) and constituting the active portion of the tool (1), characterized by the fact that the neck (4) is eccentric relative to the axis of the tool body (2), whilst the head (5), at the end of this neck (4), being itself eccentric relative to this axis, said head (5), with its cutting edge (6), being inscribed in and substantially tangent to a periphery (8) of a cylindrical space (7) corresponding to the prolongation of said tool body (2).

2. Lathe tool according to claim 1, characterized by the fact that the head (5) is located back at least a hundredth of a millimeter from the periphery (8) of the cylindrical space (7).

3. Machining assembly comprising a lathe tool (1) of the single piece type for boring with a cross-section less than 10 mm and a tool support (10) comprising, at one forward end (11), a recess (12) suitable for the reception of the body (2) of the lathe tool (1), as well as gripping means (13) for holding this latter in said recess (12), this tool support (10) being also traversed by at least one lubricant supply channel (14), characterized by the fact that said channel (14) opens at the forward end (11) of the

tool support (10) at the periphery of the recess (12) for reception of the tool body (2) which is prolonged by a neck (4) eccentric to the axis of this tool body and terminating in a head (5) comprising a cutting edge (6) constituting the active portion of the tool (1), this head (5) being itself eccentric to this axis, said head (5), with its cutting edge (6), being inscribed in and substantially tangent to the periphery (8) of a cylindrical space (7) corresponding to the prolongation of said tool body (2).

4. Machining assembly according to claim 3, characterized by the fact that the lubricant supply channel (14) comprises a principal section (15) communicating with lubricant supply means at the rear end (16) of the tool support (10) and connected to at least one spray channel (17, 18) extending tangentially to the tool body (2) in the recess (12).

5. Machining assembly according to claim 4, characterized by the fact that the spray channel or channels (17, 18) communicate with the recess (12).

6. Machining assembly according to any one of claims 4 or 5, characterized by the fact that the spray channel or channels (17, 18) are constituted by axial piercings (19).

7. Machining assembly according to claim 5, characterized by the fact that the principal section (15) of the lubricant supply channel (14) communicates with the spray channels (17, 18) through a circular throat (21), at the rear of the recess (12) for reception of the lathe tool (1).

8. Machining assembly according to any one of claims 3 to 7, characterized by the fact that the spray channel or channels (17, 18) are implanted in the periphery of the recess (12), substantially before the cutting edge (6) of the head (5) as a function of the working direction of the lathe tool (1).

9. Machining assembly according to any one of claims 3 to 8, characterized by the fact that in the bottom of the recess (12) is provided a reference seat (22) for the lathe tool (1).

10. Machining assembly according to any one of claims 3 to 9, characterized by the fact that it comprises indexing means for the angular position of the body (2) of the tool (1) in the tool support (10).

11. Machining assembly according to claim 10, characterized by the fact that the indexing means are defined, on the one hand, by the gripping means (13) and, on the other hand, by at least one flat on the periphery of the tool body (2) with which said gripping means (13) are adapted to coact.